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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,372	02/25/2004	Takashi Amano	36992.00108 (HAL 266)	7976
30256 75	590 09/13/2006	EXAMINER		
SQUIRE, SANDERS & DEMPSEY L.L.P 600 HANSEN WAY			CAO, CHUN	
	CA 94304-1043		ART UNIT	PAPER NUMBER
			2115	
			DATE MAILED: 09/13/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/787,372	AMANO, TAKASH	AMANO, TAKASHI			
		Examiner	Art Unit				
		Chun Cao	2115				
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover shee	t with the correspondence ad	dress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPI CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU .136(a). In no event, however, ma d will apply and will expire SIX (6) te, cause the application to becom	JNICATION. By a reply be timely filed MONTHS from the mailing date of this come and the mailing date of this come.	,			
Status	•						
	Responsive to communication(s) filed on <u>25 I</u> This action is FINAL . 2b)⊠ Thi	February 2004. is action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdrawd. Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/on Papers	awn from consideration.					
	•	۵r					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 19 July 2004 is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
•	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureate the attached detailed Office action for a list	nts have been received. Its have been received in Pority documents have be Bau (PCT Rule 17.2(a)).	n Application No een received in this National S	Stage			
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 2/25/04.	Paper I	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application				

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DETAILED ACTION

1. Claims 1-21 are presented for examination.

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The current title is imprecise.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-6, 11-16 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Mari (Mari), JP publication no. 08-046685.

As per claim 1, Mari discloses a data storage system [fig. 1], comprising:

a first data storage medium for storing data, the first data storage medium currently configured as an accessible medium [English translation paragraphs 0010, 0016];

a second data storage medium for storing a copy of the data, the second data storage medium currently configured as a standby medium [English translation paragraphs 0010, 0016];

first configuration information defining a switching trigger when the first data storage medium currently configured as the accessible medium becomes the standby medium and when the second data storage medium currently configured as the standby

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medium becomes the accessible medium; and a data storage system manager using the first configuration information to control the switching [fig. 1; English translation paragraphs 0017, 0020].

As per claim 2, Mari discloses that the first data storage medium and second data storage medium are each in a power-saving state [English translation paragraphs 0016, 0017].

As per claim 3, Mari discloses that the accessible medium is in a power-saving mode [English translation paragraphs 0016, 0017].

As per claim 4, Mari discloses that the standby medium is in a power-saving mode [English translation paragraphs 0016, 0017].

As per claim 5, Mari discloses that the standby medium is in a power-off mode [English translation paragraphs 0016, 0017].

As per claim 6, Mari discloses that the accessible medium is read-only [English translation paragraph 0010].

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 7-10 and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mari (Mari), JP publication no. 08-046685 in view of Guha et al. (Guha), US patent no. 7,035,972.

As per claim 7, Mari does not explicitly disclose that the switching trigger includes a time period. In other word, the two data storage media were alternately turned on/off in a time period.

Guha discloses that the switching trigger includes a time period, such that two disk drives are alternately powered [col. 10, lines 4-6; col. 14, lines 23-29].

It would have been obvious to one of ordinary skill in the art at time the invention to combine the teachings of Mari and Guha because they both disclose power control for data storage system, and the specify teachings of Guha stated above would optimize the performance and reliability of Mari system for prolonging the life of the data storages.

As per claim 8, Guha discloses that switching trigger includes an equation of access time [col. 9, lines 48-59; col. 10, lines 22-29].

As per claim 9, Guha discloses that the switching trigger includes an administrative request [col. 15, line 66-col. 16, line 5].

As per claim 10, Guha discloses that a third data storage device for storing a copy of the data, the third data storage device currently configured as a standby medium [col. 16, lines 33-36; fig. 1].

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As to claims 11-20, Claims 1-10 basically are the corresponding elements that are carried out the method of operating steps in claims 11-20. Accordingly, claims 11-20 are rejected for the same reason as set forth in claims 1-10.

As per claim 21 is written in mean plus function and contained the same limitations as claim 1. Therefore, same rejection is applied.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chun Cao whose telephone number is 571-272-3664. The examiner can normally be reached on Monday-Friday from 7:30 am-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sep. 8, 2006

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